Approved for use through 10/31/2002. OMB 0651-0032 U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

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UTILITY PATENT APPLICATION TRANSMITTAL		ey Docket	No.	003248.00093			
		nventor	or K. Ranji Vaidyanathan, et al				
		Microch Same	Microchannel Heat Exchangers and Methods of Manufacturing the Same				
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ew nonprovisional applications under 37 C.F.R. 1.53(b))		ss Mail Lal	el No.	EV306395450US	0		

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(Only for n	ew nonprovisiona	I applications under 3	7 C.F.R. 1.53(b))	Ex	xpres	s Mail Lab	el No.	EV30	6395450US		<u> </u>	
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See MPEP o	chapter 600 conce	eming utility patent ap	plication contents.		"	DUNE	33 /		Box Patent A Washington		U. 767	
1. 🛛 F	ee Transmittal	Form (e.g., PTO/S	B/17)		7.	. CD	-ROM o	r CD-F	R in duplica	ate, large table or	22154	
2. X	Submit an original ar	nd a duplicate for fee prod s small entity status	essing)		Computer Program (Appendix) 8. Nucleotide and/or Amino Acid Sequence Submission (if applicable, all necessary)							
	Descriptive title o	ment set forth below) f the Invention	al Pages 34]		b. Speci	fication	Seque	able Form ence Listing D-R (2 cop	on:		
-	- Cross Reference to Related Applications ii. paper Statement Regarding Fed sponsored R & D							ty of above copies				
	or a computer pro	uence listing, a table, ogram listing appendix								ICATIONS PARTS		
-	Background of th Brief Summary of Brief Description Detailed Descript Claim(s)	the Invention of the Drawings <i>(if fil</i>	ed)		1 .	. 🔲 з	7 C.F.R	. §3 .73	pers (cove (b) Statem an assigne			
	Abstract of the Di	sclosure			11	☐ E	English 1	Fransla	ation Docu	ment (if applicable)		
	rawing(s) (<i>35 U</i> Declaration	•	al Sheets 6]	12		nformatio Statemer		closure 5)/PTO-144	Copies of ID Citations	s	
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	Signed stateme	nt attached deleting in ior application, see 3	nventor(s)		16	. 🔲 .	Nonpubli	cation	Request u	ed/ inder 35 U.S.C. 122 st attach form PTO/SB/	35	
6. 🛛 App		heet. See 37 CFR	1.76		17		or its equ Other: <u>Ce</u>		t. <u>te of Expre</u>	ess Mailing		
18. If a CON	TINUING APPLIC	CATION, check appr	opriate box, and s	supply	the	requisite i	informati	on bel	ow and in a	preliminary amendment,		
or in an App	olication Data Sh	eet under 37 CFR 1				•						
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For CONTIN	ib, is considered	SIONAL APPS only:	The entire disclos	panyi	ing o	r division	lication, al applic	from v ation a	nd is hereb	- th or declaration is suppl y incorporated by refere polication parts.	lied nce.	
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Name (Pr	int/Type)	Rebecca P. Roko	_	/	Regi	stration l	Vo. (Atto	rney//	(lgent)	42,109		
Signature		lebecca.	Polary				-		Date	January 28, 2004		

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FEE	TR	AN	SMI	TT	AL
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Effective 10/01/2003. Patent fees are subject to annual revision.

Applicant claims small entity status. See 37 CFR 1.27

	TOTAL AMOU	INT OF	PAYMENT	(\$)	482
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Complete if Known				
Application Number	T/B/D			
Filing Date	Herewith			
First Named Inventor	K. Ranji Vaidyanathan, et al			
Examiner Name	T/B/D			
Art Unit	T/B/D			
Attorney Docket No.	003248.00093			

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☐ Check ☐ Credit card ☐ Money ☐ Other ☐ None Order ☐ Deposit Account:		Large	Entity	Small E	ntity				
Deposit		· · ·		Fee Code	Fee (\$)	Fee Code	Fee (\$)	Fee Description	Fee Paid
Account	19-0733			1051	130	2051	65	Surcharge - late filing fee or oath	
Number				1052	50	2052	25	Surcharge - late provisional filing fee or cover sheet.	
Deposit	Dannar 0 1	Miles of LTD		1053	130	1053	130	Non-English specification	
Account Name	Banner &	Witcoff, LTD.		1812	2,520	1812	2,520	For filing a request for reexamination	
The Director is au	thorized to: (ch	eck all that apply)		1804	920*	1804	920*	Requesting publication of SIR prior to Examiner action	
Charge any add	ditional fee(s) dur	Credit any overpay ing the pendency of the	nis application	1805	1,840*	1805	1,840*	Requesting publication of SIR after Examiner action	
to the above-identi		except for the filing fe	90	1251	110	2251	55	Extension for reply within first month	
to the above-identi		CULATION		1252	420	2252	210	Extension for reply within second month	
1. BASIC FI	LING FEE			1253	950	2253	475	Extension for reply within third month	
Large Entity S	Smail Entity	ee Description		1254	1,480	2254	740	Extension for reply within fourth month	
	ode (\$)	ee pescription	Fee Paid	1255	2,010	2255	1,005	Extension for reply within fifth month	
1001 770 2	* *	tility filing fee	385	1401	330	2401	165	Notice of Appeal	
1002 340 2	002 170 D	esign filing fee		1402	330	2402	165	Filing a brief in support of an appeal	
1003 530 2	003 265 P	lant filing fee		1403	290	2403	145	Request for oral hearing	
		eissue filing fee rovisional filling fee		1451	1,510	1451	1,510	Petition to institute a public use proceeding	
1005 100 2	000 F	TOVISIONAL HILLING IEE		1452	110	2452	55	Petition to revive - unavoidable	
SUBTOTAL (1) (\$) 385			1453	1,330	2453	665	Petition to revive - unintentional		
0 51/504 01 41				1501	1,330	2501	665	Utility issue fee (or reissue)	
2. EXTRA CLA		UTILITY AND REIS		1502	480	2502	240	Design issue fee	
		Extra Fee from Claims below	Fee Paid	1503	640	2503	320	Plant issue fee	
Total Claims 26		6 X 9	= 54	1460	130	1460	130	Petitions to the Commissioner	
Independent				1807	50	1807	50	Processing fee under 37 CFR 1.17 (q)	
Claims 4	-3" =	1 X 43	= 43	1806	180	1806	180	Submission of Information Disclosure Stmt	
Multiple Dependent Large Entity	Small Entity	x [= 0	8021	40	8021	40	Recording each patent assignment per property (times number of properties)	
Fee Fee Code (\$)	Fee Fee Code (\$)	Fee Description		1809	770	2809	385	Filing a submission after final rejection (37 CFR § 1.129(a))	1
1202 18	2202 9	Claims in excess of 2	20	1810	770	2810	385	For each additional invention to be	
1201 86									
1203 290	2203 145	Multiple dependent of	laim, if not paid	1801	770	2801	385	Request for Continued Examination (RCE)	
1204 86	2204 43	** Reissue independ original patent	ent claims over	1802 900 1802 900 Request for expedited examination					
1205 18 2205 9 "Reissue claims in excess of 20 and over original patent			of a design application						
	SUI	BTOTAL (2) (\$) 97		Other fe	e (speci	ry)	•		
				*Reduc	ed by Ba	asic Filing	g Fee Pa	aid SUBTOTAL (3) (\$) 0	
**or number previo	ously paid, if greater	; For Reissues, see above	•	L					

SUBMITTED BY Complete (if applicable) Registration No. Rebecca P. Rokos Name (Print/Type) (Attorney/Agent) 42,109 Telephone 312-463-5000 Signature January 28, 2004

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Deposited January 28, 2004

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Application of:

K. Ranji Vaidyanathan

Application No.: T/B/D

Filing Date:

Herewith

Title:

MICROCHANNEL HEAT EXCHANGERS AND METHODS OF

MANUFACTURING THE SAME

Patent application (34 pages) (X)

(X) Patent Application Transmittal, 1 page

Fee Transmittal in duplicate, 1 page (X)

(X) 6 pages of formal drawings, figs. 1-14

(X) Application Data Sheet, 5 pages

(X) Return receipt postcard

Attorney Docket No: _003248.00093